## INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/25291

A. CLASSIFICATION OF SUBJECT MATTER  IPC(6): G06F 13/00, 13/38  US CL: 710/101, 102, 103; 709/250  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 710/101, 102, 103; 709/250		
Documentation searched other than minimum documentation to the extent the such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
	US 5,764,479 A (CRUMP et al) 09 June 1998, col. 1, lines 31-37, col. 3, line 50-col. 4, line 51, col. 5, lines 29-35, col. 8, lines 25-29, col. 9, lines 38-53	
Y US 5,781,747 A (SMITH et al) 14 July 1998, col. 2, lines 31-55, col. 4, lines 7-65		
Purther documents are listed in the continuation of Box C. See patent family annex.		
Special categories of cited docum 's:  'A' document defining the general state of the art which is not considered to be of particular relevance  'B' earlier document published on or after the international filing date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than	is not considered  "X"  later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle of theory underlying the invention  "X"  document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y"  document of particular relevance; the claimed inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art	
Date of the actual completion of the international search  11 JANUARY 2000  Date of mailing of the international search  07.FEF 2000		
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